

Datasheet: MCA2386A488

BATCH NUMBER 1608

Description:	RAT ANTI MOUSE CD223:Alexa Fluor® 488
Specificity:	CD223
Other names:	LAG-3
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	C9B7W
Isotype:	lgG1
Quantity:	100 TESTS/1ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	-			Neat - 1/5

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Mouse		
Product Form	Purified IgG conjuga	ated to Alexa Fluor® 48	8 - liquid
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm
	Alexa Fluor®488	495	519
Preparation	Purified IgG prepare supernatant	ed by affinity chromatog	raphy on Protein G
Buffer Solution	Phosphate buffered	saline	
Preservative	0.09% Sodium Azide	e	
Stabilisers	1% Bovine Serur	n Albumin	
Approx. Protein	IgG concentration 0.	.05 mg/ml	

Concentrations

Concentrations	
Immunogen	Murine CD223 Ig fusion protein.
External Database	UniProt:
LIIIKS	Q61790 Related reagents
	<u> </u>
	Entrez Gene:
	<u>16768</u> Lag3 <u>Related reagents</u>
RRID	AB_566649
Fusion Partners	Cells from immunised Lewis rats were fused with cells of the Sp/20 myeloma cell line.
Specificity	Rat anti Mouse CD223 antibody, clone C9B7W recognizes murine lymphocyte activation gene-3 (LAG-3), a ~70 kDa activation-induced cell surface molecule that is also referred to as CD223.
	Murine CD223 is expressed on activated CD4 positive and CD8 positive alpha/beta T lymphocytes and a subset of natural killer (NK) cells. CD223 binds to MHC class II molecules with high affinity and is reported to negatively regulate T cell homeostasis and T cell expansion.
	Clone C9B7W recognizes an epitope within the D2 domain of CD223. Rat anti Mouse CD223 antibody, clone C9B7W is reported to block the <i>in vitro</i> function of murine LAG-3 but does not block binding of LAG-3 to MHC class II (Workman et al. 2002).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
	The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (<u>BUF041A/B</u>).
References	1. Workman, C.J. <i>et al.</i> (2002) Cutting edge: molecular analysis of the negative regulatory function of lymphocyte activation gene-3. <u>J Immunol. 169 (10): 5392-5.</u> 2. Workman, C.J. & Vignali, D.A. (2005) Negative regulation of T cell homeostasis by lymphocyte activation gene-3 (CD223). <u>J Immunol. 174 (2): 688-95.</u> 3. Byrne, K.T. <i>et al.</i> (2011) Autoimmune melanocyte destruction is required for robust CD8+ memory T cell responses to mouse melanoma. <u>J Clin Invest. 121 (5): 1797-809.</u> 4. Ordway, D. <i>et al.</i> (2007) The hypervirulent <i>Mycobacterium tuberculosis</i> strain HN878 induces a potent TH1 response followed by rapid down-regulation. <u>J Immunol. 179: 522-31.</u> 5. Hu, Z. <i>et al.</i> (2013) Regulatory CD8+ T cells associated with erosion of immune surveillance in persistent virus infection suppress <i>in vitro</i> and have a reversible proliferative defect. <u>J Immunol. 191 (1): 312-22.</u>

- 6. Iwasaki, Y. *et al.* (2013) Egr-2 transcription factor is required for Blimp-1-mediated IL-10 production in IL-27-stimulated CD4+ T cells. <u>Eur J Immunol. 43: 1063-73.</u>
- 7. Woo, S.R. et al. (2010) Differential subcellular localization of the regulatory T-cell

protein LAG-3 and the coreceptor CD4. Eur J Immunol. 40: 1768-77.

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2386A488

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Regulatory

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M366747:200529'

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